

QUALITY CERTIFICATE

NINGBO JINDING FASTENING PIECE CO., LTD

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Customer:	MAPTCO FASTENERS(AUST)PTY LTD.,	Date :	2020-07-21
Product:	HEX CAP SCREWS	Contract No:	20JDMFC088A
Class:	8	Invoice No:	2007-69183314
Size:	3/4-10X4	Lot No:	3651180028
Marking:	JDF six radius	Order No.	
Quantity:	1.050 mpcs	Part No.	D354
Country of Origin:	CHINA	Production Date	2020-06-08
Dimensions Of SPEC:	TEST FACILITY: Manufacturer	Certificate No.:	202006235026

Inspection Items	Standard	Result	Sample	Pass
Visual Appearance	-----	OK	30	30
Body Diameter	0.741-0.750	0.743-0.743	20	20
Thread	Go	2A	OK	20
	No Go	2A	OK	20
Width Across Flats	1.125-1.100	1.106-1.113	20	20
Width Across Corners	1.299-1.254	1.268-1.274	20	20
Major Diameter	0.735-0.746	0.743-0.744	20	20
Head Height	0.483-0.455	0.467-0.472	20	20
Total Length	3.900-4.000	3.968-3.972	20	20
Thread Length	mi n 1.750	1.890-1.890	20	20
Key Engagement	/	/	20	20
Head Diameter	/	/	20	20

Mechanical Properties		TEST FACILITY: Manufacturer			
CharacTeristics	Standard	Result	Sample	Pass	
Surface Hardness [30N]	max 58.6	53.0-53.5	10	10	
Core Hardness [HRC]	33-39	34.0-34.0	10	10	
Wedge Strength [psi]	mi n 150000	154711-157179	8	8	
Yield Strength , 0.2% offset [psi]	mi n 130000	141504-150648	8	8	
Elongation [%]	mi n 12	14-18	8	8	
Reduction Of area [%]	mi n 35	41.2-54.9	8	8	
Proof Load [Ib]	40100	40100	4	4	
Impact test [Akv/J]					
Decarburization	N \geq 2/3H1 HVO.3	350.94 350.08 368.37	6	6	
HV(2) \geq HV(1)-30, HV(3) \leq HV(1)+30	G 0.0006max		6	6	

CHEMICAL COMPOSITION(%)		TEST FACILITY: Supplier									
Heat No	C	Si	Mn	P	S	Cr	Ni	Cu	Mb	B	
XGML40CR-20 E22001836	0.41	0.19	0.74	0.018	0.004	1.00	0.01	0.01			
Thickness [UM]										20	
Surface Coating:	BLACK										

Thread Specification: ASME B1.1 2008, UNIFIED INCH SCREW THREADS(UN AND UNR THREAD FORM)

Sampling Dimension Specification: ASME B18.18-2017 inspection and quality assurance for high-volume machine assembly fasteners

Dimension Specification: ASME B18.2.1 2012, HEX CAP SCREWS

Sampling mechanical properties specification: ASTM F1470 2018 Standard Guide for Fastener Sampling for Specified Mechanical Properties and Performance Inspection

Mechanical Properties: SAE J429 2014, MECHANICAL AND MATERIAL REQUIREMENTS FOR EXTERNALLY THREADED FASTENERS

Surface Defect: ASTM F788/F788M-2013, SURFACE DISCONTINUITIES OF BOLTS, SCREWS, AND STUDS

The MTR shall include a statement that the products supplied are in compliance with all the requirements of the order.

THE REPORT IS ISSUED ACCORDING TO ISO16228 F3.1(EN10204 3.1)

Quality Control Supervisor	Quality Control Manager
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沈健秋